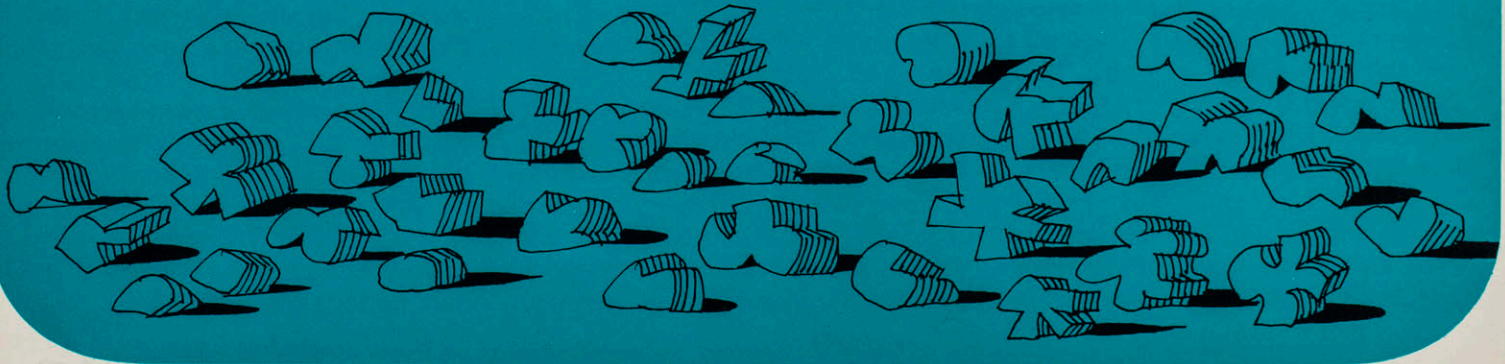
MUSEUM ALLIANCE

QUARTERLY

LOS ANGELES COUNTY MUSEUM
VOL. 4, NO. 2
FALL ISSUE 1965



MINERALS FROM THE SEA / OUR COUSINS, THE WHALES / TWO RIFLES, TWO MEN / HAPPY 15TH TO THE DOCUMENTARY FILM SERIES / MEMBERSHIP LIST, JULY 1964-JUNE 1965



MUSEUM ALLIANCE



EDITOR

Mrs. Ewing Seligman (Dorothy Halle) assumes her responsibilities as Editor of the QUARTERLY with this issue. Mrs. Seligman is a member of the Museum Alliance Board of Directors and has had many years experience in newspaper and editorial assignments. Miss Libow will continue as Managing Editor.

A VERY SPECIAL THANK YOU



We are most grateful to the following members who have made their charter flight refund payable in full to the work of the Museum Alliance: Mrs. I. B. Adelman, Miss Edna Barrowman, Mr. Robert Bennett, Dr. and Mrs. Ralph Bookman, Miss Peggy Christian, Mr. and Mrs. Arthur Gage, Mr. and Mrs. Walter J. Glass, Mr. and Mrs. Edward H. Gray, Mr. Norman A. Hansen, Mr. and Mrs. W. V. Henderson, Mr. Daniel Webster Houston, Mr. Peter G. Karis, Miss Cynthia Lawrence, Mr. and Mrs. Henry M. Lende, Mr. Burton Lewis, Miss Janice May, Miss Florence G. Moyer, Mr. and Mrs. Robert F. Niven, Mr. Harry J. Pack, Dr. Bernard Rosen, Mr. and Mrs. Harry H. Roth, Mr. Al F. Valenti, Mr. and Mrs. Thomas Wolfe, Dr. Milton Wexler.

In addition to having had a wonderfully inexpensive vacation in Europe, each has an income tax deduction for his gift. Contributions were made in the name of the History, Pre-Columbian, or Gem funds.

THE ETHNIC ARTS COMMITTEE



Formed by the Board of Directors of the Museum Alliance, this committee has been instrumental in securing a number of notable gifts and loans for the Pre-Columbian Hall scheduled to open this fall. Collections have been enriched by a number of its members: Dr. and Mrs. George C. Kennedy, Mr. and Mrs. Ralph Bellamy, Mr. and Mrs. Peter T. Furst, Mr. and Mrs. Jules Berman, Mr. and Mrs. Alfred E. Stendahl, Mr. and Mrs. David Pasternack, Dr. and Mrs. Milton Heifetz, Mrs. Amalia de Schulthess, Mr. and Mrs. Millard Sheets, Mr. and Mrs. Lawrence L. Jeffries, Mr. and Mrs. Arthur Barth, Mr. and Mrs. Hasso van Winning, Mr. and Mrs. Henry H. Clifford, and Mr. and Mrs. Lawrence E. Irell.

Private donations have made study tours to several eastern and Mexican museums possible for Dr. Charles Rozaire, Curator of Archaeology, and Mr. Robert Ariss, Curator of Anthropology. Funds for acquisitions have been made available through the generosity of the following organizations: the Museum Docent Roundtable, the Volunteer League of San Fernando Valley and the Museum Alliance Projects and Purchase fund.

Your participation in this exciting project is encouraged. Contributions, tax deductible, should be made payable to the Museum Alliance Acquisitions Fund.

NEW DIMENSIONS TO DELIGHT



This series of special events for member participation was announced early in September and runs from October through May. Two events are being repeated because of past success and continuing requests: the Day in the Field, for geology and paleontology (members who did not attend last season will be given priority), and the Gray Whale Charter Boat trips. Laboratory Open House will give members a chance to have a behind-the-scenes in one of four areas, History, Paleontology, Archaeology, and Minerology. A history tour in San Fernando Valley will include the Mission and the Los Encinos ranch house. Tidepool Treasures will be under the direction of our Marine Biology staff and will include an evening orientation program in addition to the shore exploration. The closing event in May will provide members with the opportunity to know more of the development of the new South Bay Botanic Garden.

If you have not yet made application for the programs of your choice do not delay. Cancellations are frequent and many requests are granted to those who were first on the waiting list.

FIVE WEEK CHARTER FLIGHT



The Museum Alliance's first five week charter flight to Europe left Los Angeles for London and Paris on September 15. Members had the opportunity to leave the plane in either city and to choose their point of return. This was the sixth charter flight sponsored for members—the next flight will be in April.

ORIENT TOUR RAVES



Many letters of appreciation and delight have been received from the forty-odd members who toured the Orient with the Museum flight in May. An unusual highlight of this 28 day adventure was a visit to Angkor Wat in little-visited Cambodia. As one enthusiastic traveler wrote of the group, "We couldn't have gotten along together better if we had been selected by Univac." Our next tour leaves Los Angeles on November 4, and plans are in the making for spring of 1966.

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MUSEUM ALLIANCE

QUARTERLY

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MINERALS FROM THE SEA



by ROBERT GAAL
Curator, Geology • Mineralogy

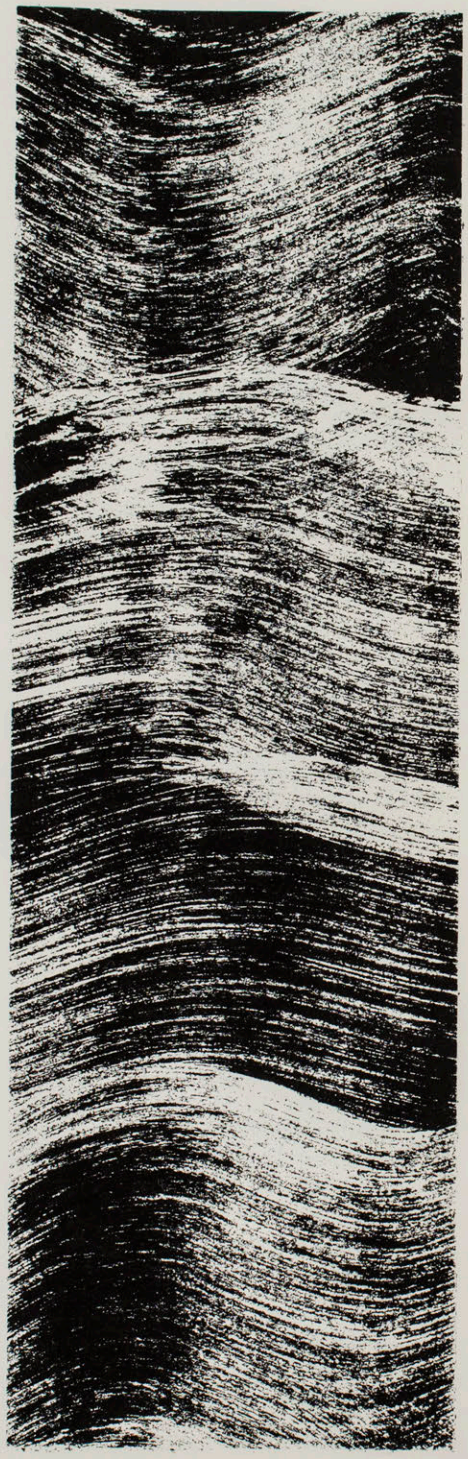


To most of us, the sea is only "water," a place to swim, sail, fish or fly over. It isn't important to us that, actually, the sea is a solution of gases and salts in which water is the dominant substance supporting vast numbers of living organisms. We don't grasp the significance of the fact that materials in solution and suspension, primarily carried by rivers, have been deposited in the oceans and seas of the world since time began. Nor do we consider the sea a vast mineral mine of almost limitless amounts of minerals and metals we use on land, but in great dilution.

Men of vision, however, have long recognized the vast storehouse of natural wealth that lies in and beneath the oceans which cover over 70% of the earth. Even though scientists generally accept that life originated in the sea, man has remained reliant on the land. But only recently, due to hot and cold war stimulus and impending economic necessity, has there been a concentrated effort to understand and exploit these resources of the sea.

The sea is a giant thermostat controlling world climates, a reservoir of water, a source of food, a playground, a waste disposal area, and a vast storehouse of potential mineral wealth.

The science of oceanography, (encompassing the realms of the biological, physical, chemical, and geological disciplines), though rigorous, is still relatively young and man has a long way to go in building up detailed knowledge of the oceans and all that they contain. Today, the bottom of the oceans



Dredge being lowered over the side from the Lockheed-California Company oceanographic research vessel, the "Sea Quest," in search of phosphorite nodules off the southern California coast.



are no better mapped than was the North American Continent before the Lewis and Clark Expedition. Our knowledge of the oceans as well as the art of designing engineering equipment to withstand the forces of the sea and to exploit its potential is scarcely beyond its infancy.

It should be noted that the far-sighted Kennedy Administration initiated a ten-year program that would spend $2.3 billion on oceanography. It would be a coordinated effort involving the Navy and 14 Federal Agencies, with contracts going to such research centers as: Scripps Institution of Oceanography at La Jolla; Allan Hancock Foundation, USC; Woods Hole Oceanographic Institute on Cape Cod; the University of Miami Institute of Marine Science; and Columbia University's Lamont Geological Observatory.

When we compare this amount with that allocated for space exploration, we find it to be hardly impressive. In fiscal year 1963, a meager $124,500,000 went for oceanography, against more than five billion dollars for space.

There seems to be far more urgency for man to explore outer space and the moon than to become familiar with his own backyard which occupies a major portion of his own planet—inner space. Consequently, the slow but deliberate pace of the ocean research program will be a long range investment.

In terms of exploitation of resources, especially minerals, the payoff in this decade may not be great. But your children's children will surely benefit from minerals, food, and water derived from the sea and possibly they may even live beneath it also.

Abraham Gottlieb Werner, one of the first great mineralogists, in 1775 thought that all rocks and minerals precipitated from a primeval ocean. Although one may also consider him to be one of the first marine geologists, some of his concepts were grossly in error; however, many minerals found today have formed and are now forming in the sea.

Let's turn now to man's dream of gold and minerals from the sea. The fact that sea water itself is rich in dissolved minerals has inspired numerous proposals to "mine" it by chemical processing because almost every known element has been found in the sea. An understanding of the major elements in sea water will help to explain many of the misconceptions regarding the mining of sea water. Sodium and chloride (common table salt) form 85.2% of the dissolved solids in sea water, whereas over 99% of the total dissolved salts in sea water is shared by just nine elements. Oceanographers have determined that the average percentage composition of total salts in sea water is:

Ion	Per Cent
Chloride	54.8
Sodium	30.4
Sulphate	7.5
Magnesium	3.7
Calcium	1.2
Potassium	1.1
Carbonate	0.3
Bromide	0.2
Borate	0.07

The average amount of dissolved elements in sea water is 3.5% and a cubic mile of sea water holds about 165 million tons of solids. It has been estimated that the sea holds 330 million cubic miles of water and that the total amount of dissolved mineral matter in the oceans is about 54,450,000,000,000,000,000,000 tons.

Although a cubic mile of sea water may seem difficult to visualize, it might help to point out that a body of water 26 miles long, 10 miles wide, and about 20 feet deep would contain approximately 1 cubic mile.

Shortly after World War I, the great German chemist, Fritz Haber, conceived of the idea of paying his country's war debts by recovering gold from the ocean. A cubic mile of sea water contains up to 25 tons of gold and 45 tons of silver. He worked for years without approaching his goal. Dreams of extracting great mineral wealth directly from sea water have always failed until relatively recently.

Because of the tremendous volume of the sea, the total amount of any mineral in it is a staggering quantity and leads to dreams of "gold from the sea." But with few exceptions, so dilute is the concentration that extraction by presently known means is as uneconomical as processing a low grade ore on land.

Although commercial possibilities appear limited today, they are, in fact, a growing actuality. Recent advances in the field of hydrometallurgy indicate that radio-active, heavy, and precious metals may soon be exploited economically from the sea. Russian, British, American and German scientists have been successfully extracting uranium and precious metals on a small scale. It should be noted that the concentrations of elements in sea water are now known to vary from locality to locality within the seas and a systematic program to map areas of high concentrations of valuable elements must first be established. Once these areas compatible to economical extraction are known, the seas will be "seined" with devices that are towed through the water capturing the elements sought similar to netting fish.

Whether or not we extract anything from sea water depends on whether it competes favorably with getting the same substance from somewhere else. The present economic balance might shift so that what seems prohibitive today may be profitable tomorrow. For example, desalinization of sea water by nuclear powered fresh water conversion plants, today generally uneconomical for civilian use, is employed at Guantanamo, Cuba because it is more efficient than shipping in fresh water.

To be sure, common salt has been produced by evaporation for many centuries and in many parts of the world, and in recent times potash has also been recovered. Reportedly, salt was extracted from sea water through solar evaporation by the Chinese prior to 2200 B.C.

Common table salt, considered a luxury by the ancients, opened up many of the old trade routes of the world. Interestingly enough, it was only when man began to boil his food that he needed to mine salt because the natural salt in his uncooked food was lost through boiling. Consequently, man began to gather salt from the salt deposits on land which are the remains of ancient seas as well as from the present oceans. Only a small amount of salt comes directly from the sea as most is mined on land from deposits precipitated from ancient seas.

In Russia, and other areas of high latitude, salt is obtained by freezing sea water. The ice formed is relatively pure water, leaving a salty brine which is filtered off and evaporated to dryness by heating.

Bromine has been extracted from the sea since 1924 by the Ethyl-Dow Corporation and bromine is a valuable by-product of both salt works and magnesium production.

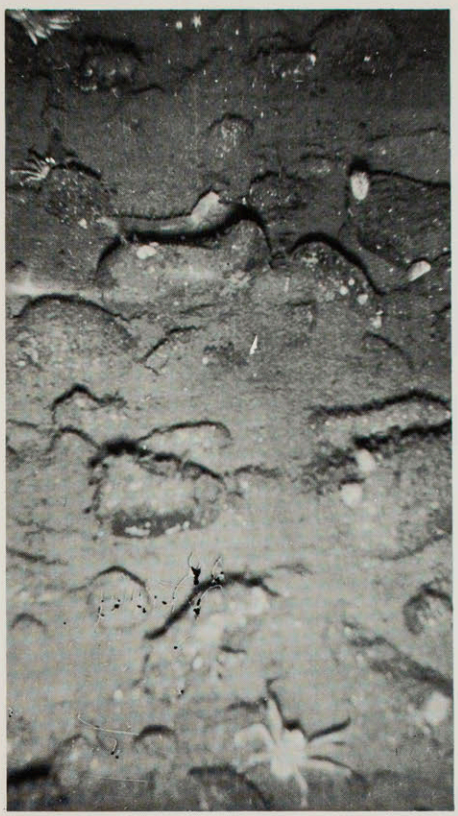
There has long been a demand for bromine compounds due to their sedative properties, use in photography, and the manufacture of dyes, and since the 1920's as an "anti-knock" additive in gasoline. Originally obtained from the ash of burnt seaweed and later from brine and salt deposits on land, the demand for bromine greatly exceeded the supply and man once again turned to the inexhaustible sea for his needs. Approximately 300,000 tons of bromine is contained in one cubic mile of sea water and at the present rate of consumption of gasoline in the United States this amount would last two years.

The light element magnesium, second most abundant metal in sea water, is economically extracted, even though there is only a tenth of one per cent of it in sea water as compared to 40 times as much in rock and soil on land. The world's first commercial production of magnesium metal from sea water was obtained at Freeport, Texas, in January, 1941. The ability of the United States to master the problems of extracting magnesium from sea water before its enemies played a very significant role in winning World War II. Henry J. Kaiser operates the Moss Landing Plant for magnesia and others such as Dow Chemical have supplied the nation with magnesium from sea water since 1941 from a single plant at Freeport, Texas.

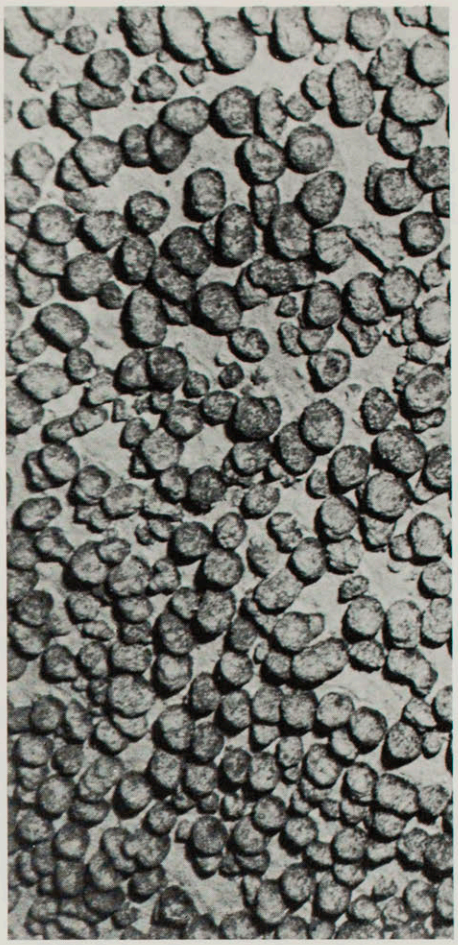
A seldom considered mineral from the sea is the "gem of the ocean," the pearl. Essentially, a pearl is the same substance as "mother of pearl" of shells and is composed mostly of calcium carbonate held together by a tenuous network of organic conchiolin. Although the most valuable natural pearls are found near Ceylon and in the Persian Gulf, fine black pearls have come from the coast of Baja California and adorn much of the royal crown jewelry of Europe. Because of the lack of pearls formed naturally in the sea, man has developed the cultured pearl and the earliest known were produced by the Chinese in the thirteenth century. Today, the Mikimoto Company, in Japan, operates the largest pearl farms in the world. The founder of the Mikimoto Company, Kokichi Mikimoto, lived to the ripe old age of ninety-five and attributed his health and longevity to the fact that he ate two crushed pearls for breakfast each day. Undoubtedly they were Mikimoto grown.

Let's turn now to some of the important minerals in the sea off the California coast. The bottom of the sea contains ore deposits comparable with those on land. The oozes and clays that form much of the sea floor might well be worth mining as aluminum or as raw material for portland cement.

Some of the most promising forms of mineral wealth in the sea simply lie in chunks on the bottom and have been known for almost a



Sea-floor phosphorite taken in about 700 feet of water on the top of Forty Mile Bank off the San Diego coast. The largest nodule is about one foot in diameter. Note the crabs and other marine organisms. Photo courtesy of Lockheed-California Company



This remarkable deposit of manganese nodules lying on the floor of Drake's Passage in Antarctic waters was photographed by Dr. John L. Mero of Ocean Resources, Inc., a California corporation now actively exploring for minerals in the sea on a world wide basis. The nodules are 1-5 cm. in diameter. This photo was taken at a depth of 3,860 meters at latitude 57°59' south and longitude 70°44' west. (Photo Courtesy of Ocean Resources, Inc.)

century. These are the famous manganese nodules.

About 1872 the famed British Oceanographic vessel Challenger dredged up lumps of a strange mineral that looked like fire-blackened potatoes. Assays later showed that these nodules were exceptionally rich in manganese oxide and contained substantial amounts of iron, cobalt, and nickel.

During the recent International Geophysical Year, dredging in deep water revealed that much of the ocean floor is literally cobbled with nodules which range in size from microscopic bits to one that weighed almost a ton.

Nodules grow in layers like onions or encrust rocks at an extremely slow rate, reportedly no faster than one millimeter in a thousand years and in many cases much more slowly.

World-wide surveys suggest that there are so many nodules forming continuously that they could supply all man's needs for their major metallic constituents, and still the total growth, though exceedingly slow, would easily exceed the rate of depletion.

To date, no one has actually mined manganese nodules commercially, although several companies are investigating ways of mining and refining them.

Some marine geologists and engineers believe the best way to mine nodules is to suck them off the bottom with a huge vacuum cleaner; others suggest the use of submarine caterpillar-tracked earth-movers that scrape the valuable nodules into submarine mining hoists because of the difficulties that may be encountered in pumping from depths greater than two miles.

Some of the easiest nodules to mine are on the relatively shallow Blake Plateau off the Florida Coast, but unfortunately, they are of low grade.

The largest known deposits of the most valuable nodules (those especially rich in nickel and cobalt) lie in the extremely deep waters of the mid-Pacific ocean.

It has been estimated that the ore from nodules recovered from an ocean bottom area of one square mile could amount to 6,000 tons of manganese, 4,000 tons of iron, and 125 tons each of cobalt, copper, and nickel. Furthermore, the value of the mineral deposits within one square mile of ocean floor may amount to half a million dollars.

Regardless of the controversy on how best to raise nodules from the bottom of the sea, continuing rapid depletion of high- and low-grade ores on land is bound, sooner or later, to make nodule mining an attractive commercial venture.

An entirely different kind of nodule, rich in phosphate, also promises to be worth mining.

Only a short time ago, a Pacific Coast corporation leased rights from the U.S. Department of the Interior to dredge phosphorite nodules from Forty Mile Bank, a rise in the Continental Borderland, 40 miles due west of San Diego.

Phosphorite nodules are nearly comparable to high-grade phosphates mined on land. Unfortunately, none of the phosphorite nodules have yet been mined commercially. Because the corporation's concession was located on an old bombing target area and live bombs had been dredged up, the company shelved its plans and gave up their lease.

Fortunately, however, surveys indicate that the reserve off southern California may be about a billion tons, which is 1/10 of the phosphate rock reserve of the U.S. These figures suggest that ample deposits lie off-shore to provide California agriculture with phosphate fertilizer for decades to come.

Phosphorite forms in areas of little sedimentation, with highly oxygenated waters which are supersaturated with tricalcium phosphate and presumably in waters with a colloidal phase of phosphate available for deposition. The dark brown-colored phosphorite is usually Miocene in age (25-13 million years old) and the light brown material is probably no older than Late Pliocene (6-3 million years old) as indicated by the enclosed fossil organisms, such as foraminifera.

Another mineral forming today on bank-tops offshore is glauconite, a highly complex mineral chemically, which is related to the biotite micas and illite clays. It is commonly associated with phosphorite in highly oxidizing areas where sedimentation is very slow. Typically, they are found as casts of foraminifera, which may be formed in a micro-reducing environment. Glauconite can be used for water softeners, soil conditioners, and as a source of potash and by-product iron.

Recently, modern submarine prospectors have been discovering other mineral deposits in shallow water in so-called "drowned beaches" on the continental margins. These shelf areas were exposed during the Pleistocene Ice Age, when sea level was lower than today, and subsequently were covered by sediments from land. As the ice slowly melted, sea level once again rose, drowning the sedimentary deposits along the margins of the continents, and today they lie on the ocean shelf just offshore.

Rich tin ores lie in drowned beaches and submerged river valleys off the coasts of Thailand and Indonesia.

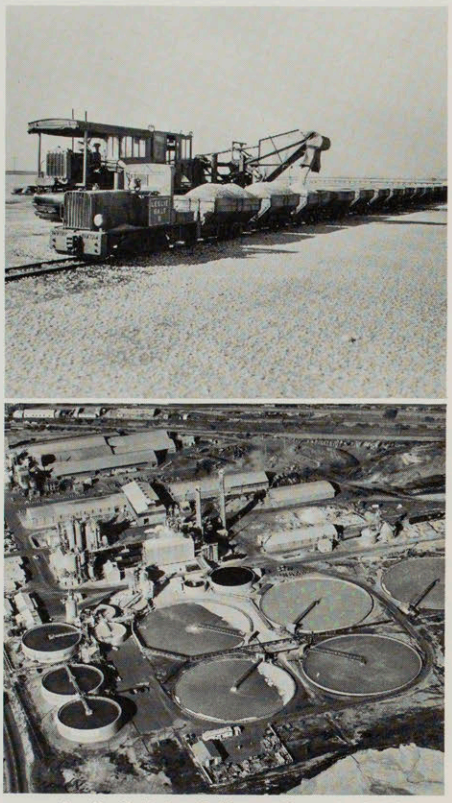
Gold occurs in submerged sands and gravels near Nome, Alaska. Recently, a Texan named Sam Collins struck it rich in a brand-new mining business, dredging diamonds from the floor of the ocean. With financial backing from the de Beers organization, Collins is reportedly averaging almost $200,000 worth of gem quality diamonds per month dredging gravel in shallow water off the coast of Southwest Africa.

Japan has been recovering iron ore (magnetite sands) from offshore deposits and mining coal from underneath the ocean for years. Some marine mining has also been done closer to home. The sands at Redondo Beach, averaging about 7% ilmenite, have supplied about 15,000 tons of titanium concentrates mined mostly in 1927-28.

Dune sands and some beach sands from El Segundo have been mined and used for sand blasting and foundry sand. Beach gravels between Carlsbad and Encinitas were extensively mined between 1915 and 1948 for grinding stones and as filter aids at $65.00 per ton.

Salt ponds at the heads of San Diego Bay and Newport Bay produce 80,000 and 10,000 tons of salt per year, respectively.

Another potential source of fertilizer and organic matter not yet mined is the offshore basin mud itself. A vast mixture of minerals and organic matter lie on the floor of some basins off the southern California coast which might be used for fertilizer. In Europe, the Dutch have been reclaiming their shallow coastal areas for centuries and converting it into valuable agricultural land.



Leslie Salt Co. Refinery, Newark, California

Of course, under the shallow water of the continental shelves we are tapping valuable reserves of petroleum. More than 400 billion barrels of oil, about ⅓ of all of the known remaining reserves on earth, lie underneath the world's sea bed. Early this summer the first well was spudded in for the "Thumbs" group in the offshore area of Long Beach.

As you see, we have only scratched the surface of minerals from the sea and soon we hope to become better acquainted with the environment that covers about three-quarters of our globe.



Pair of gray whales migrating south close to suburban areas of San Diego. Photo by Raymond M. Gilmore

OUR COUSINS, THE WHALES

RAYMOND M. GILMORE, Ph.D.
California Western University

Whales include among their living species some of the largest and most magnificent animals the world has ever seen. Longer than a railroad car, more powerful than a locomotive, they have reached the peak of their evolution in the oceans, where water supported their enormous weight and where they could find sufficient food to build and sustain their great bodies. These sizes approach 95 feet and perhaps 175 tons for the most massive of the great blue whales, the largest of all species of whales, living and extinct.

The longest dinosaur was **Diplodocus**, which left a skeleton of 87½ feet in the rocks, but hardly weighed 20 tons because of a long, snake-like neck and tail. The bulkiest dinosaur was **Brachiosaurus,** 45 feet or so, and perhaps 40 tons. And, these undoubtedly were swamp-dwellers, where water could help support the great weight.

The last 20 years have seen an explosion of interest, both popular and scientific, in whales and in their smaller cousins, the dolphins and porpoises. This has come from the capture and display in large marine aquaria of the bottlenosed dolphin, **Tursiops,** and some related species. The dolphin and pilot-whale have



Museum Alliance whale watching excursion off San Diego, January 1965. Photo by Robert Comport

shown a remarkable ability to perform aquatic acrobatics, a personality and apparent enjoyment in the show and in their relationship with the trainers; they have shown as well surprisingly high intelligence, and possibly conversational powers which may be coupled with animal sonar.

I think high intelligence and communicative powers, with echo-ranging, have been the most surprising discoveries of science in relation to the toothed whale group, which includes dolphins and porpoises. Some authorities even go so far as to endow the bottlenosed dolphin with the intelligence and vocalization ability sufficient to learn to converse meaningfully and symbolically in the English language!

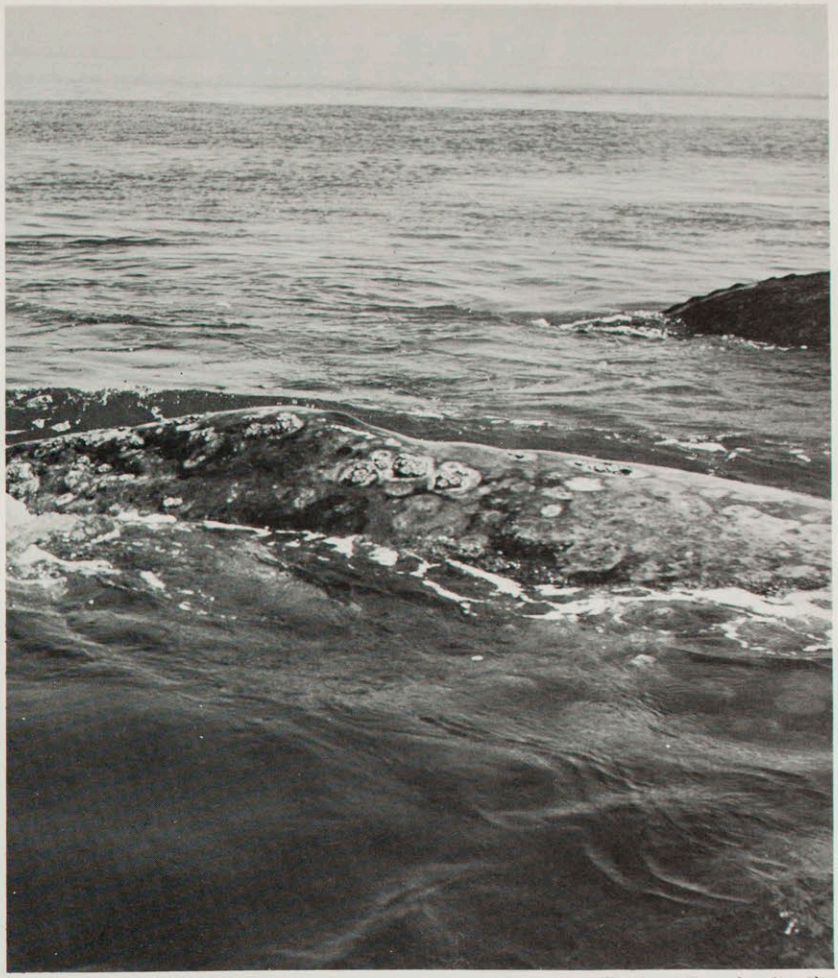
Why this intelligence? I conclude that it has taken brains to survive in the watery habitat, as well as a remarkable plasticity in the genetic, hereditary mechanism to come up with controlled changes that led to adaptations for efficient locomotion and living beneath the surface of the water. This is a most adverse habitat for an air-breathing, warm-blooded animal that bears its young alive and nourishes it with milk.

Because it is presently impossible to keep the larger whales in captivity, we cannot test their intelligence as we can that of the dolphins and porpoises, seals and otters. But, the gray whale, in its close association with man on migration along the shore of southern California, has shown that it also possesses a high order of intelligence. It has learned to avoid boats with ease, at greater and greater distances, without evident panic or fear.

The gray whale does so by dodging, doubling back, swimming long



Gray whales often poke their heads out of water in an apparent effort to see some surface activity nearby, and consequently this behavior has long been termed "Spy-hopping." Scammon Lagoon. Photo by Raymond M. Gilmore



Gray Whales. Mating Couple. Head of one, and tail region or "small" of another showing the series of knuckles or sharp bumps. Head shows the batches of low barnacles surrounded by areas of discoloration which, with or without barnacles, in their accumulation, give the gray color to the whale. Blow holes are just to right of peak of head which is going toward left. February 1955. Photo by John MacFall. Courtesy Scripps Institution of Oceanography.

distances under water, and then coming to the surface evasively, emitting the breath so slowly and gently that it does not condense into a visible foggy spout, and then inhaling and sinking without exposure of back or flukes. The head is bent back in this process. Evasive swimming is instinctive, because the newborn show it, but its increase in occurrence on the migration path in the presence of boats is a change in behavior to meet a new situation, and this represents intelligence.

Our interest and affection for whales, dolphins, and porpoises is enhanced by the realization that they are mammals, related distantly to us. Whales have attained near perfection in the evolution of a streamlined, fishlike form, with loss of hind legs, modification of fore legs into vanes in an extreme forward position, the acquisition of fibrous fins on back and tail for balance and swimming propulsion.

* * * *

In the megalopolis of southern California which extends from Santa Barbara to San Diego, we have the great aquaria of Marineland of the Pacific at Palos Verdes, and of Sea World at San Diego. Both have outstanding displays of marine mammals, not only dolphins of various species, but also the pilot-whale, walrus, elephant-seal, California seal, spotted harbor seal, and others. And we also have the California herd of gray whales, perhaps the greatest display of all.

The gray whale is from 35 to 50 feet long when mature, and may weigh 20 to 40 tons. These whales migrate annually, every winter and spring, south and then north, close to shore, to the lagoons and bays of Baja California from the Bering

Straits region, and back again. Probably nowhere else in the world can so many millions of land-lubbers see easily from shore or small boats a great annual parade of large whales on migration as can the southern Californians viewing the migration of the California gray whale.

The spectacle of this long, thin line of gray whales, rarely with a gap of more than five miles during the height of migration, within sight of shore, is truly one of the great sights on earth. Hundreds of people come annually to headland and point, especially those that lie in the path of migration across bay or bight, and thrill to the sight of a series of three to five blows of lingering, plumelike condensing breaths, and perhaps a flip of the huge tail-fins, or flukes, out of water as the animal turns down steeply for a long swim underwater again. In addition, many thousands take small private boats or public excursion boats to the lane of migration, which is from a quarter to three miles from shore, and follow the harmless, barnacled behemoths of the deep at a respectful distance. Over 2600 Alliance members have taken this trip off San Diego in the past two seasons.

I emphasize **respectful distance** because it is possible to ride almost up on the back of a gray whale, reach a near collision with one by a sudden burst of speed, and some boat-jockeys do this for a precarious thrill. Such action not only frightens the whale and makes it more wary of such attention immediately and in the future, thus spoiling the show for many people, but it also subjects the small-boat operator and his passengers to the danger of a vicious swipe of the great flukes, the whales' only weapon, but a powerful and effective one.

* * * *

By an ironical paradox, now that public interest in them is high, the whales of the world have steadily declined from overwhaling. The great blue whale has been all but exterminated in the eastern north Atlantic, all southern oceans, and the western north Pacific. It apparently remains in some strength in the western north Atlantic and eastern north Pacific.

The latter is our part of the Pacific, former United States whaling grounds, now furrowed by the combined whaling fleets of Japan and Russia. Fortunately, protection now is accorded the blue whale everywhere. The humpback whale, to 50 feet, is again almost gone throughout its world-ranges. The sperm-whale or cachalot, the famed Moby Dick, 40 to 60 feet in the male, 30 to 40 feet in the female, is taking a terrific hammering everywhere. The finback to 80 feet, and the sei whale, or silky finner, are next on the list of victims.

The whaling industry still operates with the primitive, unbraided passion of kill, kill, and kill some more—as it has always done, now, however, reinforced by stronger interests of private investment and national prestige. No one really owns the whales on the high seas. And so, twilight has come to the titans.

Yet at the same time, in a double paradox, the California herd of gray whales has been increasing! Twice it was hammered to its knees by the industry—first, in the late 1800's, by the hand-whalers that operated behind many headlands on the California and Baja California coasts, and inside the breeding lagoons, including San Diego Bay—second, from 1924 to 1937, when the Norwegians, Americans, and Russians operated modern whaling stations and factory-ships from Magdalena Bay to southern California, and off northeastern Siberia. In 1938, when the population was down to approximately 500 individuals, protection was given by international law, and the herd started on its second and present increase. There are probably between 6,000 and 7,000 individuals in the herd today, if we project to 1965 the calculated rate of increase of 11% annually, as obtained from detailed censuses in the past.

Cool, calculating eyes have been watching this increase in the gray whale population, and several whaling interests, in both Japan and the United States, have put strong pressure on the Mexican government for a franchise to operate a whaling station at Magdalena Bay in southwestern Baja California. Magdalena Bay, in the miles and miles of inshore, protected, quiet waters of the bay itself, and in its tributary lagoons and esteros, was originally the greatest area of calving and breeding of the California gray whale. It could become so again, outstripping the Scammon Lagoon between San Diego and Magdalena Bay, now the most populous lagoon for gray whales.

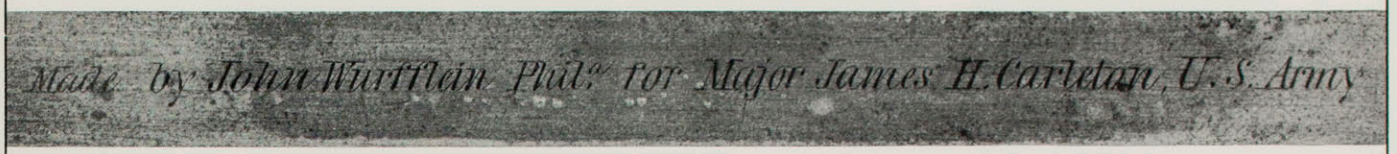
Relaxation of the protection on the gray whale for a station at Magdalena Bay would, moreover, open the flood-gates for an equal quota by the United States at San Francisco, the Canadians at Vancouver Island, and the Russians in the Bering Strait region.

The California gray whale will never sustain whaling for long by four nations, and thus never return more than a momentary profit, and this would soon be ploughed back into capital investments, as into an exhausted gold-mine. Would it not be wiser to preserve the gray whale in almost its full populational strength, not yet reached, and to encourage the establishment of Mexican national parks at the principal breeding lagoons where thousands of tourists from the United States, Mexico, indeed from the world, can come to enjoy the exciting and unique sight of gray whales massed by the thousands on their restricted breeding grounds? Motels, guides, small boats for charter, photography, film, and all the appurtenances of the tourist trade would bring in many more thousands of dollars, continued indefinitely, than would a foreign license for whaling over a few years, until the stock is again uneconomically low.

Will it be "Sic transit gloria mundi"—thus passes away earthly glory; or, "Sic semper gloria naturae"—thus, always, a glory of nature? Time, your involvement and efforts, and an "ecologic conscience" on the part of leaders concerned, will tell.

TWO RIFLES, TWO MEN

RUSSELL E. BELOUS
Curator of Western History



Hunting rifle, .52 caliber, made by John Wurfflein for Major James H. Carleton, about 1856. Detail of lock plate is shown here.



Detail of patch box on Deringer rifle engraved for Lt. Barrett about 1861

Few people recognize that, during the Civil War, important military campaigns were fought far west of the Missouri River. This is the story of two men who fought together in that war of the western territories, James H. Carlton (1814-1873) and James J. Barrett (1835-1862).

The two men were on the same side. They were officers in the same "California Column." Theirs was the shared experience of the designation by Colonel Carleton of a new fort in the ". . . honor of Lt. James Barrett." And now, a century later, as if truth were really stranger than fiction, consider then this most improbable circumstance: two artifacts, each bearing their inscribed names, separated from one another by that hundred years finally coming together in the History Division collection!

In December, 1964, Dr. and Mrs. Eldon E. Smith brought two rifles to the museum as a gift. One was an easily recognizable United States Army contract rifle, converted from flintlock to percussion. The lock plate was stamped 1826 and its maker's name, clearly visible, was the well-known H. Deringer, Philadelphia. But of greater significance was the always present patch box where a soldier might keep a few greasy patches, lead balls, and perhaps even a stick of chewing tobacco. On the cover was engraved: "Lt. James J. Barrett, Company A, California Volunteers." As if to compound obvious excitement over such a rare piece, Mrs. Smith pointed with evident pride to the second rifle. This one was quite different—a civilian percussion hunting rifle. We tried to guess which one of the dozen or so American gunsmiths could have fashioned this beautifully engraved weapon: Hawken, Tryon, Golcher, Marston, Hoffman, Leaman, Wurfflein? Yes, the lock plate was John W. Wurfflein, Philadelphia. But Dr. Smith was not to be denied the final point. He turned the rifle so that I could see the top of the barrel. It was hard to believe that, delicately inscribed, was: "Made by John Wurfflein Phila for Major James H. Carleton, U.S. Army." As the weapons lay side by side, awaiting the Museum's inevitable cataloguing system, I began the slow process of piecing together the story of these two men. It was no accident, of course, that brought us the rifles. Dr. Smith had had the Barrett rifle for some time. When he acquired the Carleton rifle, he immediately recognized the significance of the find and felt that he owed it to the community

to share the two rifles. With Dr. Smith's help, the simple straightforward account of Lieutenant Barrett's career emerged.

The story begins with his birth in County Mayo, Ireland, in 1835. He and his parents soon became a part of the increasing tide of immigrants to the United States. His life to age 19 we'll bypass. At that age, in New Jersey, Barrett enlisted in the army and was assigned to Company D, 1st Dragoons, then serving in Oregon. He had listed his occupation as coachmaker and for the next six relatively calm years he spent most of the time as post carpenter. Corporal Barrett was honorably discharged at Fort Dalles, Oregon, May 19, 1860.

As he boarded the stage for San Francisco, he probably was unaware of the events in the East which would soon return him to service. In fact, in Chicago on the previous day, May 18, the scene was set. The Republicans had nominated Abraham Lincoln for the Presidency. A year later, following the surrender of Fort Sumter, the Confederate Congress authorized the recruitment of 400,000 men. America's most devastating conflict had begun!

Jefferson Davis, while Secretary of War in President Franklin Pierce's cabinet, had early recognized the importance of the West. The Confederate States of America controlled an area as far west as the northeastern corner of Texas. If it could acquire the Territory of New Mexico, which extended west from Texas to California, this prize would place the Confederacy almost at the Pacific Ocean. If California seceded from the Union, the potential mineral wealth of the West, with its valuable military stores and equipment, would be of inestimable value to the Confederate cause. Early in 1861, John R. Baylor of the Texas Mounted Rifles was enlisting men to "hunt buffaloes on the plains." Actually, they were being readied to invade New Mexico. By mid June, 1861, Lieutenant Colonel Edward R. S. Canby, Union Commander of the Department of New Mexico, was making plans to defend his far-flung military installations.

On July 24, 1861, Secretary of War Simon Cameron authorized California Governor John G. Downey to raise one regiment of infantry and five companies of cavalry to guard the Overland Mail route from Carson Valley to Salt Lake City and Fort Laramie. By December, however, Confederate Brigadier General Henry H. Sibley's army was threatening to invade New Mexico and Arizona. This action, together with the intense secessionist activity in the Los Angeles and San Bernardino areas, caused Major General George B. McClellan in Washington to order a diversion of a number of California volunteer companies from the Overland Route to Southern California and eventually into Arizona and New Mexico. Camps Downey and Merchant, in Oakland, provided the nucleus of what was soon to be known as the California Column.

Enter again James Barrett, who apparently having had enough of civilian life in San Francisco, signed his second enlistment at the Presidio. On August 10, 1861, he was mustered in as 2nd Lieutenant, Company A, 1st California Volunteer Cavalry. Sometime after enlisting and before his Company left Camp Carleton (near San Bernardino) for Arizona, Lieutenant Barrett was issued the Deringer rifle. Originally manufactured as a flintlock, it must have seen a good deal of use in the Seminole and Black Hawk Wars. Just prior to the Mexican War, all weapons in government arsenals were examined for possible conversion to the new percussion lock system. All serviceable weapons made from 1821-31 were held suitable for conversion and, by 1861, this gun was among the nearly 5,000 "Common Rifles" at the Benecia Arsenal.

So, with his rifle indelibly inscribed with his name, Lieutenant Barrett's Company left Camp Carleton for Fort Yuma, March 1, 1862.



Henry Deringer "Common Rifle," Model 1817. Originally a flintlock, this rifle was converted to percussion about 1845 and later issued to Lt. Barrett.

The tedious journey through the desert was compounded by the severe problems of transporting military supplies, food and forage for the animals. Some provisions were slowly hauled overland while others were shipped from San Francisco and San Pedro down the Pacific Coast, through the Gulf of California, and up the Colorado River to Fort Yuma. Since Tucson was in the hands of the Confederates, everything used by the California Column, except some wheat and hay purchased from the Pima Indians, had to be brought to Fort Yuma in preparation for the advance into Arizona. From this Fort, late in March, 1862, the Column, consisting of 272 men, began its march to Tucson. They were to travel up the Gila River to the bend, cross country to the Pima Indian villages then

south to the Rebel stronghold. On April 15, Lieutenant James Barrett, with twelve cavalrymen, caught up with a retreating Confederate detachment of sixteen men at Picacho Pass, about 45 miles northwest of Tucson. The Yankees forced the Rebels into the chaparral where a few minutes of fierce fighting took place. Barrett and two of his men were killed; three were wounded. This fight at Picacho Pass, as it later turned out, was the only Civil War skirmish fought in present-day Arizona; it has been referred to as the "westernmost" battle of the war.

Their advance toward Tucson temporarily checked, the Union forces returned to the Pima villages where a military post was constructed. The Commander of the California Column, Colonel James Carleton, issued the following directive: "The post . . . is hereby designated as Fort Barrett in honor of Lt. James Barrett, Company A, 1st Cavalry, California Volunteers, who fell in defense of his colors . . . The names of . . . those who fell by his side will, until the end of the war, be called at every stated roll call . . . and a comrade shall always respond, 'He died for his country'."

When James H. Carleton reached Tucson on June 7, 1862, he had much to reflect upon. His military service had already accounted for twenty-four of his forty-eight years. The Carleton name was well known not only in England where the ancient Carleton Hall manor house in Carlisle had been continuously occupied from 1066 to 1707. Since the arrival of Edward Carleton on New England's shore in 1638, the family continued to play an important role in community affairs. Members of the family appeared on the Boston Tea Party list, opposed the Stamp Act, and were with Washington at Valley Forge. So, with the exploits of his ancestors to remind him of his duty, James Henry Carleton was commissioned Lieutenant in the Maine Militia, August 20, 1838. He served his state and nation well in the ensuing delicate negotiations with England concerning the "Maine Boundary Controversy." For this service, Hannibal Hamlin, later Vice-President during Lincoln's first term, was one of a number of leading statesmen who recommended to the Secretary of War that Carleton be given a commission in the regular army; his appointment as 2nd Lieutenant of the First Dragoons came on October 18, 1839. For less than one hundred dollars a month he had elected to suffer the isolation, boredom and hardship that few today would choose. Perhaps this was an opportunity to heed the advice of Charles Dickens, to whom Carleton had written about his literary ambitions. The already famous English author, seemingly anticipating Horace Greeley's advice, told Carleton to "go west, young man." Perhaps, however, it was the economic depression of the 1830's which influenced his decision. In any case, Carleton's appointment was a lucky one, since there were always more West Point graduates than there were vacancies for them to fill. Promotion was slow and few officers had opportunity to become experienced in Indian fighting—where they would most likely exhibit leadership qualities. Contrary to the impression created by television programs, wide screen spectaculars and novels about the supposedly savage Indian wars, from 1789 until the Mexican War, the Regular Army recorded only 96 Indian fights in which there were casualties; and most of these were small affairs involving a few men, or at most, a company or two. During a five-year enlistment, a soldier might expect to be in only one "fight."

Lieutenant Carleton was, of course, fullly aware of the implication of these statistics; to gain recognition he would have had to take advantage of every situation most likely to gain him experience. Since his service has been well chronicled by his biographer, Aurora Hunt, we need only note here some of the adjectives which alternately were to characterize his personality: tough, demanding, ruthless, intelligent, victorian, wily, and most of all, always controversial. For example, he survived a Court Martial in 1843, which recommended his dismissal, and then, four years later, won distinction during the Mexican War. He was promoted to Major, and for his book, The Battle of Buena Vista . . . 1848, Carleton received the congratulations of General Zachary Taylor.



Hunting rifle, .52 caliber, made by John Wurfflein for Major James H. Carleton, about 1856.

If Carleton's life is clearly documented, his rifle is another matter. We have, for example, an unusually good record of the mail order purchase by the Major and his family, while stationed in New Mexico from 1850-1856. The considerable correspondence between Carleton and the Boston jewelry firm of Bigelow, Kennard and Company shows a sophisticated frontier shopping system, with a most modern, flexible

long-term credit system. Indeed, the budget of this young officer must have been under a severe strain; by 1856, his purchases of "cutlery, silverware and fine jewelry" totaled nearly $1400. Although this company provided other services, there is unfortunately no mention of a rifle. The only real clue so far is that Major Carleton was on special duty in Philadelphia.

In the winter of 1856, John Wurfflein, who apparently made only a few rifles—and then only on special order—is known to have been in Philadelphia during that same period. The weapon was obviously made for target or hunting use, having had a special peep sight attached. It is in excellent condition, the barrel showing only minor wear. It seems difficult to imagine that Carleton had much opportunity to take advantage of his new acquisition. Arriving at Fort Tejon (near Los Angeles) in 1859, he spent the next two years, first in Utah investigating the infamous Mountain Meadows Massacre, and then patrolling the Mojave desert. As the fever of impending war reached its climax in California, it seemed only natural that Secretary of War Cameron in 1861 would telegraph: "Suggest to the Governor of California . . . the propriety of making Major Carleton the Colonel of the First Regiment of Infantry . . . If anyone else is made Colonel . . . he will be deprived of his command."

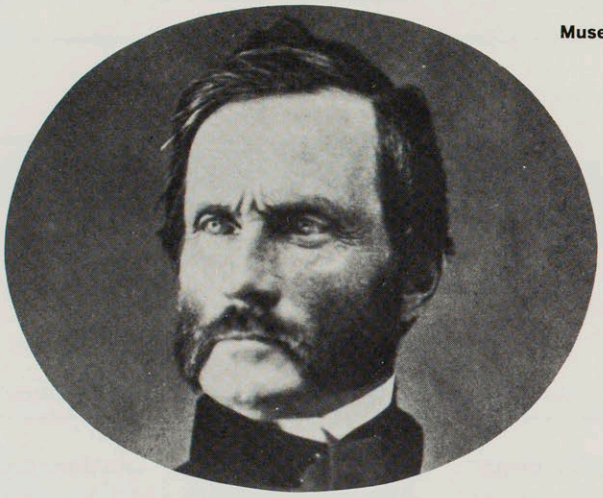
So, Colonel James Henry Carleton had much to think about that seventh of June, 1862. Perhaps on that day, he recalled his impassioned words at the occasion of his Company's transfer from Fort Tejon to Los Angeles in 1861: "Let us leave our children as an inheritance, no bloody feuds, but rather leave them an example of kindness . . . toward each other . . . Woe to him who would sow dissension among these now happy and prosperous people whether he came from North or South . . ." He may have been thinking of his impending promotion; in less than two weeks, he would receive his commission as Brigadier General. To such a man of purpose, moreover, it would not seem unreasonable to suppose that before long, he would assume command of the Department of New Mexico.

Finally, if he had looked even further ahead, beyond the war, he would be sure to attain the rank of at least a Brevet Major General and that he would die still in the service of his country.

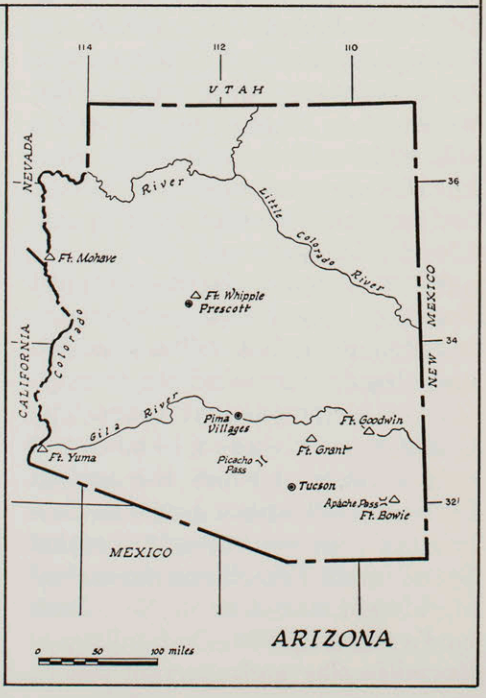
I am quite certain, however, that even General Carleton, in his wildest dreams, could not have imagined the reason for this story: that, after a hundred years, his rifle and the rifle of Lieutenant Barrett, the man he honored, would be together again.



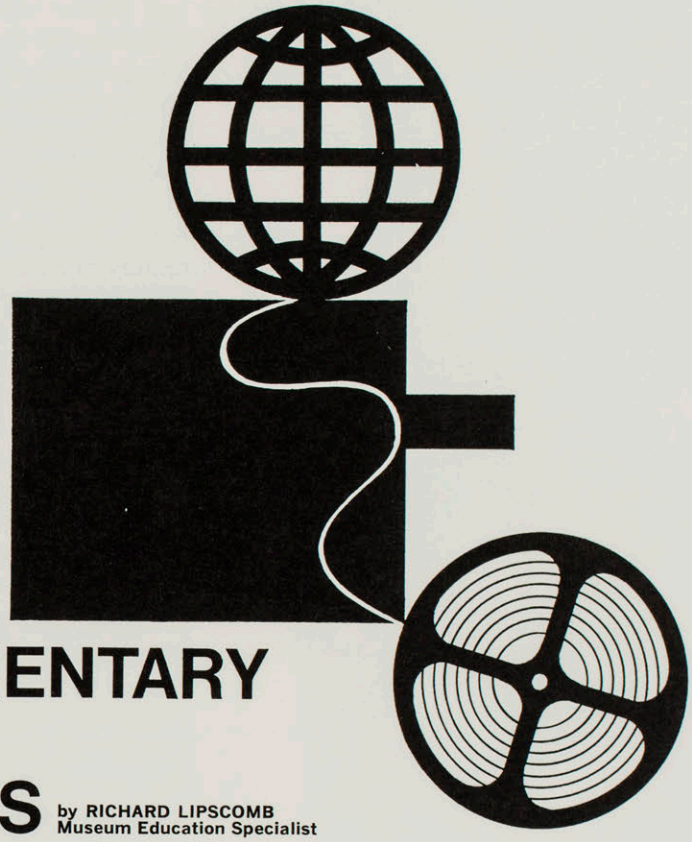
Hunting rifle, .52 caliber, made by John Wurfflein for Major James H. Carleton, about 1856. Detail of lock plate is shown here.



Gen. Carleton
Museum of New Mexico, Santa Fe, N.M.



HAPPY 15TH TO THE DOCUMENTARY FILM SERIES



by RICHARD LIPSCOMB
Museum Education Specialist

The seven feature films selected for this year's Museum Documentary Film Series take the program into its fifteenth year of operation. Originally intended as a limited series with showings at the Museum only, the program has broadened greatly in scope over that original concept. Requests by communities to show the films in their own localities early caused an expansion of film showings outside the Museum—and the Museum Documentary Film Circuit was born.

Each film on the Circuit is exhibited for a month—one showing each at twenty-two county locations and at the Museum. Communities as widely distant as Pomona, Long Beach and Santa Monica now project the films on every available week night, and on some week-ends, to keep the showings within the month span. Films are supplied by the Museum's Education Division; all other facilities, including projectionist, are provided by the local community showing the film.

The season runs from October through May, with the exception of December, when holiday activities make scheduling too difficult. Admission is free to all the showings and open to the public. Symptomatic of the variety of film fare selected that has kept the Series growing is the Press comment on three of the films to be seen this season:

TIME Magazine said of the motion picture
GENEVIEVE: ". . . fossil vehicles as wild a sight on a modern highway as a pterodactyl in a bird bath."

The NEW YORK HERALD TRIBUNE said of LAFAYETTE: ". . . rousing panoramic piece of American history to delight the young . . . and old . . . the battle scenes have color and excitement. Even more impressive is the British surrender at Yorktown, a sweeping panorama as weapons are laid down and flags lowered."

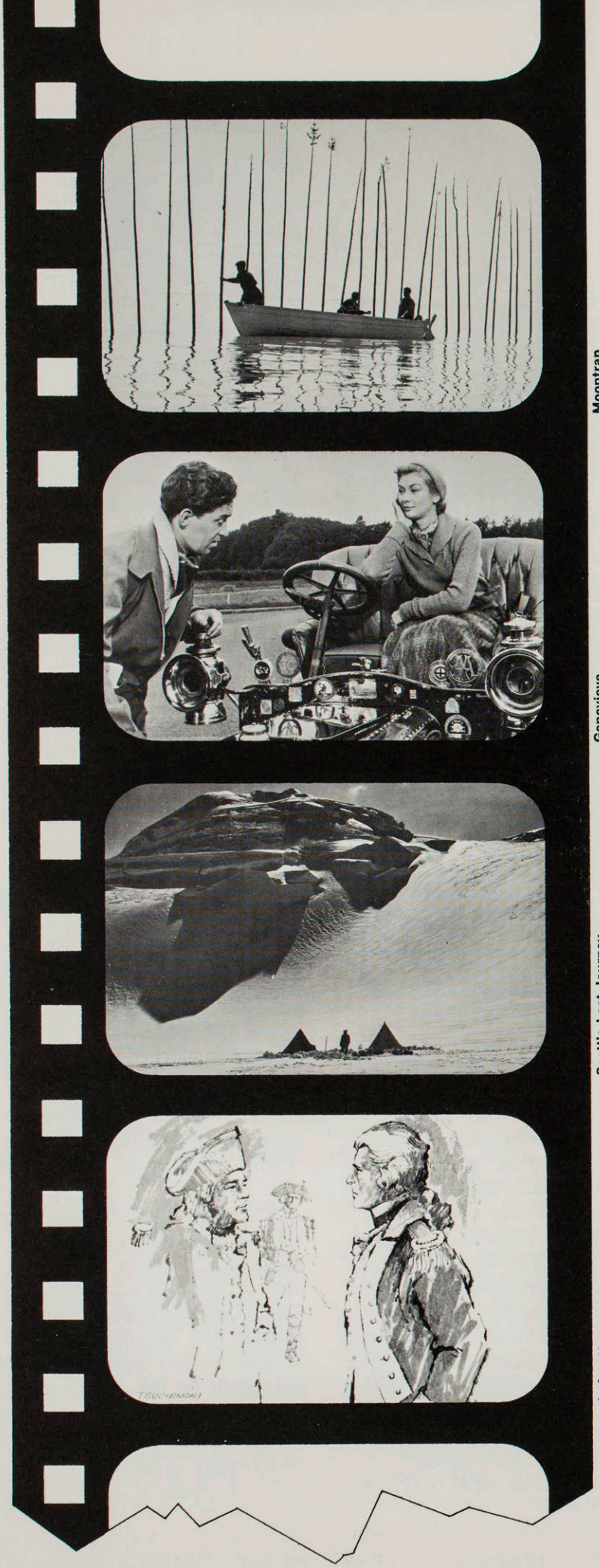
And TIME Magazine commented on Shakespeare's RICHARD III: "The cast that Olivier has assembled is a 'Who's Who' of the British Theater—Sir John Gielgud, Sir Ralph Richardson, Sir Cedric Hardwicke, Claire Bloom, Pamela Brown —and they play, for the most part, with a remarkably even and deep-breathing power. Olivier himself interprets the title role with a mastery so complete that RICHARD III in this generation will surely never be himself again."

Films are selected for the series to represent interest areas of the Museum. GENEVIEVE, LAFAYETTE, and RICHARD III have been chosen for their excellence in depicting aspects of transportation and history.

Another high point of the season will be the showing of SAFARI YA TEMBO as the final film of the series—reflecting the area of science. This is the motion picture of the Machris-Knudsen Expedition which went to Africa to gather elephants for the soon-to-be-opened Elephant Habitat Group. This film received its local premiere earlier in the year at the Museum and won the "Chris" Award at the Columbus Film Festival.

It is hoped that the showings in May of SAFARI YA TEMBO will coordinate with the first public display of the new Elephant Habitat Group. Besides underlining the fact of that new exhibit, SAFARI YA TEMBO vividly presents the actual gathering of the elephants to be seen in the new display and is an excellent depiction of a modern big-game safari to Africa.

In the area of exploration the Documentary Series has programmed the superb BBC documentary, SCOTT'S LAST JOUR-



NEY, during the month of January.

The LONDON OBSERVER remarked of this film:
"Producer John Read created a wonderfully vivid picture of the age, of the expedition itself in all its complex strength and failure and tragedy . . ."

In 1910 the Scott Expedition left a prosperous, peaceful England. Edward VII had just died, the motor car was still something of a novelty, and Bleriot made the first airplane crossing of the English Channel. The astonishing film sequences and photos taken by Hubert Ponting, the expedition's photographer, form the major part of the film. These sequences show the daily life in the camp, experiences of individual members of the expedition and the beginnings and end of that ill-fated final push to the pole when Scott learned that the Norwegian Amundsen had already preceded him. Added to this crushing blow was the foulest weather in centuries and the doom of the polar group was sealed.

The well-written commentary by Martin Chisolm, plus the comments of a surviving geologist of the expedition, add greatly to an understanding of the experience and the fate of SCOTT'S LAST JOURNEY.

For the month of March VILLAGE BENEATH THE SEA, by the outstanding underwater photographer Harry Pederson, will be shown on the Film Circuit. This film was one of the high points of last year's Museum Lecture Series when Mr. Pederson appeared to narrate it. The Documentary Film Series has been fortunate to obtain the film for the circuit with Mr. Pederson's commentary on the sound track.

Mr. Pederson's thesis is that: "Hidden beneath the turquoise waters of the Bahamas there are villages in the sea. They have no streets, policemen, or chambers of commerce. But they are villages just the same—where generations come and go—with a manner of living that unites the citizens into a distinct social structure. And the goings on in this deep sea society are truly fantastic."

Besides magnificent color photography of scenes that have never

been seen before, Mr. Pederson brings a humanizing touch to the bizarre kaleidoscope of underwater life. Some scientists believe that the Twentieth Century may well be remembered as much for exploration of the seas as for the conquest of space.

The seventh film, and the one selected for opening this year's Museum Documentary Film Series, will be the recently released Canadian film, THE MOONTRAP. This is a genre film about life among French-Canadians on Isle-aux-Courdes, an Island 70 miles east of Quebec City in the St. Lawrence River. The succint, folksy humor of the film stems from the efforts of the islanders to revive the age-old custom of trapping white dolphins which yearly migrate past the Island. Intending to sell a trapped dolphin to a museum, the entire island is drawn into the enterprise. What follows is an amalgam of rustic vitality, contending viewpoints and native customs through the four seasons that reflect the human warmth of a community in cooperation. Produced by the Film Board of Canada, the film was designated Canada's "Film of the Year" for 1964 by Film News Magazine.

The chronological schedule for the 1965-1966 Film Series follows:

October—MOONTRAP . . . 86 minutes; black and white.

November—GENEVIEVE (in case TIME'S allusion was abstruse, this is the comic odyssey of the annual ancient auto run from London to Brighton by the Vintage Car Club. It stars Kenneth More, Kay Kendall, John Gregson and Dinah Sheridan.) 86 minutes; in color.

January—SCOTT'S LAST JOURNEY . . . 60 minutes; black and white.

February—LAFAYETTE (This film of the American Revolution is French-made. Claude Renoir's color photography has been called "an aesthetic delight." With Jack Hawkins, Orson Welles, Michel Le Royer, Vittorio De Sica, Howard St. John and Liselotte Pulver.) 110 minutes.

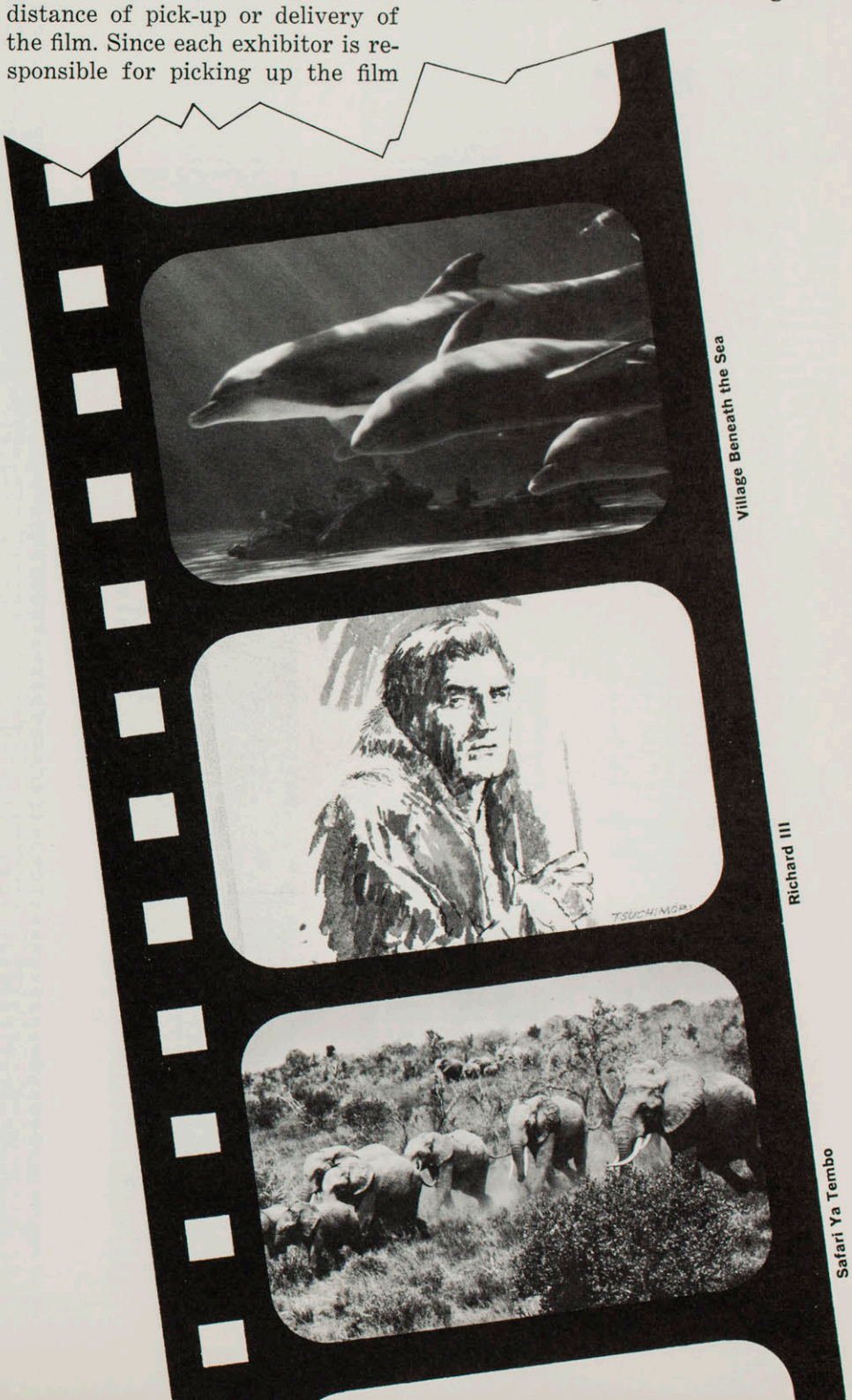
March—VILLAGE BENEATH THE SEA . . . In color.

April—RICHARD III . . . 155 minutes; in color.

May—SAFARI YA TEMBO . . . In color.

Russel Smith, Chief of the Museum's Education Division, has guided the Documentary Film Series from inception; he reports that each year more communities request to share the program. Requirements are that the newly added location be in a public place and that no other member of the circuit be dealt a hardship by the distance of pick-up or delivery of the film. Since each exhibitor is responsible for picking up the film from the previous showing, the task of scheduling requires a great amount of cooperation. New communities are fitted in whenever possible; there are, however, few open dates left for newcomers.

As an Alliance member you receive the Film Circuit announcement for the full series each September. If you have misplaced it, you may call Mrs. Ruby Rathburn, Education Division, Los Angeles County Museum, for program listing dates and places of showings.



NEW MEMBERSHIP IN THE MUSEUM ALLIANCE

JULY 1964 JUNE 1965

We take pleasure in saying thank you to each of the following for his participation in the program of the Alliance. Through your membership we have been able to make our greatest contribution to the advancement of the Los Angeles County Museum—and you have had many occasions to enjoy the events presented in your behalf.

TRANSFERRED TO LIFE MEMBERSHIP
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NEW SUSTAINING MEMBERSHIPS
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